



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: December 15, 2009

TO: Mayor and Councilmembers

FROM: Creeks Division, Parks and Recreation Department

SUBJECT: Professional Services Contract With URS Corporation For Design And Feasibility Analysis Of A MacKenzie Park Parking Lot Runoff Infiltration Project

RECOMMENDATION: That Council:

- A. Authorize the Parks and Recreation Director to execute a City professional services agreement with URS Corporation in the amount of \$56,470 to perform a feasibility study and prepare final design plans and construction specifications for a MacKenzie Park Parking Lot Runoff Infiltration Project; and
- B. Authorize the Parks and Recreation Director to increase these services by ten percent, or \$5,647, if necessary in order to cover any cost increases that may result from final design review and construction requirements.

DISCUSSION:

Project Description

The Creeks and Parks Divisions intend to design and install a passive treatment system to treat stormwater and urban runoff through infiltration at the City of Santa Barbara's MacKenzie Park Parking Lot. The primary purpose of the treatment system will be to detain and filter polluted stormwater and incidental urban runoff through passive infiltration without compromising the existing use of the parking lot or the surrounding structures. A secondary purpose of this project will be to serve as a demonstration of how to retrofit an existing parking lot in order to improve water quality while minimizing the cost of construction and post construction maintenance.

Project Review

Stormwater and urban runoff from impervious surfaces are major sources of surface water quality degradation. Runoff from parking lots often contains pollutants including hydrocarbons, fine sediments, polycyclic aromatic hydrocarbons (PAHs), metals, nutrients,

and additional pollutants that are toxic to aquatic organisms and potentially harmful to human health.

MacKenzie Park Parking Lot was chosen for several reasons including the deep groundwater table, its simple shape and stormwater runoff conveyance, and its location situated a safe distance from any existing underground groundwater contamination plumes. Due to some constraints of the site, the volume of runoff to be treated, and the need to construct a project with little operational energy or maintenance requirements with maximum watershed benefit, an infiltration system was determined to be the most suitable treatment method for the MacKenzie parking lot.

Consultant Selection

In August 2009, a request for proposals was distributed to 49 engineering and design firms located throughout California. Five consulting firms submitted proposals and two firms were interviewed (URS Corporation and The Wallace Group).

After careful review, staff recommends URS Corporation, a multi-disciplinary national professional services firm with an office located in Goleta, California. URS Corporation has demonstrated experience with the engineering and design of urban stormwater infiltration projects.

Timeline

It is anticipated the feasibility analysis, final design plans, construction specifications, and permitting will take up to six months to complete. With Council approval of the contract, the project will begin in December 2009, and final design products will be delivered by April 2010. The timeline includes surveys and data analysis, preliminary feasibility and design, permitting, final design and construction specifications, review by the Creeks Advisory Committee, Park and Recreation Commission, and City staff.

BUDGET/FINANCIAL INFORMATION:

The cost to prepare the final designs and construction specifications is \$56,470. This amount includes preliminary plan peer review, final design plans and specifications, and bid support for the anticipated project construction phase. A ten percent contingency amount of \$5,647 is included to cover cost increases that may result from final design review and construction requirements requested by the City. Including contingency funds, the total cost for the URS Corporation contract is expected to be \$62,117.

Funding for the contract will be provided by Fiscal Year 2010 Creeks Capital Funds.

SUSTAINABILITY IMPACT:

Stormwater and urban runoff from impervious surfaces are a major source of surface water quality degradation. Infiltrating polluted runoff provides passive treatment at the source, which enhances watersheds and beaches, reduces damaging peak stormwater flows, recharges groundwater, and requires no power consumption for operation.

PREPARED BY: Cameron Benson, Creeks Restoration/Clean Water Manager

SUBMITTED BY: Nancy L. Rapp, Parks and Recreation Director

APPROVED BY: City Administrator's Office